

2157/JPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Billot et al.

Serial No. 10/521,508
~~09/626,699~~

Filed: January 18, 2005

For: EP4 Receptor Agonist, Compositions and Methods
ThereofArt Unit: To be AssignedExaminer: To be AssignedCommissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97

Sir:

1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

By Christine M. Dona Date 4-8-05

INFORMATION DISCLOSURE STATEMENT

5. Pursuant to 37 C.F.R. 1.98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

RELATED APPLICATION		
U. S. SERIAL NUMBER	FILING DATE	MERCK CASE

If this is inconvenient, additional copies will be submitted upon request.

6. In accordance with 37 C.F.R. 1.97, (check one)

- ☒ the attached information is filed within three months of the filing date of the captioned case.
- ☐ the attached information is filed more than three months after the filing date but prior to the mailing of a first Office Action on the merits.
- ☐ the attached information is being filed more than three months after the filing date and after the mailing of a first Office Action on the merits, but before the mailing date of a Final Action or Notice of Allowance. The enclosed authorization is therefore given to charge Deposit Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p).
- ☐ the undersigned certifies that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.
- ☐ the undersigned certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated under 37 C.F.R. 1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,


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Date: April 8, 2005

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INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

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Sheet

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COMPLETE IF KNOWN

Application Number 09/626,999 10/521,508
 Filing Date January 18, 2005
 First Named Inventor Billot et al.
 Group Art Unit To be Assigned
 Examiner Name To be Assigned
 Attorney Docket Number MC060P

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
	1.	4,386,098		Woltersdorf Jr. et al.	05/31/1983
	2.	4,416,890		Woltersdorf Jr. et al.	11/22/1983
	3.	4,426,388		Woltersdorf Jr. et al.	01/17/1984
	4.	4,668,697		Shepard et al.	05/26/1987
	5.	4,863,922		Baldwin et al.	09/05/1989
	6.	4,797,413		Baldwin et al.	01/10/1989
	7.	5,378,703		Dean et al.	01/03/1995
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	9.	5,153,192		Dean et al.	10/06/1992
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	11.	4,824,857		Goh et al.	04/25/1989
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	13.	4,599,353		Bito	07/08/1986
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Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office	Number	Kind Code (if known)		
	21.	PCT	WO 00/38667		Alcon Laboratories	07/06/2000
	22.	PCT	WO 99/32441	A1	Alcon Laboratories	07/01/1999
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Examiner Signature

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Application Number

~~09/626,699~~ 10/521,508

Filing Date

January 18, 2005

First Named Inventor

Billot et al.

Group Art Unit

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		Office	Number	Kind Code (if known)		
	42.	EP	EP 1132086	A2	Pfizer Products Inc.	01/31/2000
	43.	EP	EP 1114816	A1	Ono Pharmaceutical	09/10/1999
	44.	PCT	WO 01/72268	A1	Toray Industries	03/30/2001
	45.	PCT	WO 94/13275	A1	Massachusetts Eye and Ear Infirmary	06/23/1994
	46.	PCT	WO 01/70702	A1	Alcon Universal Ltd.	09/27/2001
	47.	PCT	WO 02/077168	A2	Merck & Co. Inc.	10/03/2002
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	51.	PCT	GB 1 487 842		Hoechst Aktiengesellschaft	10/05/1977

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Application Number	091626,999 10/521,508
Filing Date	January 18, 2005
First Named Inventor	Billot et al.
Group Art Unit	To be Assigned
Examiner Name	To be Assigned
Attorney Docket Number	MC060P

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
	54.	A. Ichikawa et al., "Molecular Aspects of the Structures and Functions of the Prostaglandin E. Receptors", 1996, pp. 83-87, Vol. 14, J. Lipid Mediators Cell Signaling.
	55.	A. J. Flach et al., "Topical Prostaglandin E2 Effects on Normal Human Intraocular Pressure", 1988, pp. 13-18, Vol. 4, J. Ocular Pharmacology.
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	59.	E. M. Ross, "Mechanisms of Drug Action and the Relationship Between Drug Concentration and Effects" 1996, Chapter 2, The Pharmacological Basis of Therapeutics.
	60.	M. A. Lemp, "Report of the National Eye Institute/Industry Workshop on Clinical Trials in Dry Eyes", 1995, pp. 221-231, Vol. 21, No. 4, The CLAO Journal.
	61.	I.K. Gipson et al., "Mucin Genes Expressed by the Ocular Surface Epithelium", 1997, pp. 81-98, Vol. 16, Progress in Retinal and Eye Research.
	62.	D. A. Dartt et al., "Localization of Nerves Adjacent to Goblet Cells in Rat Conjunctiva", 1995, pp. 993-1000, Vol. 14, Current Eye Research.
	63.	R. A. Schumer et al., "The Nerve of Glaucoma!", 1994, pp. 37-44, Vol. 112, Arch. Ophthalmol.
	64.	L. Dandona et al., "Selective Effects of Experimental Glaucoma on Axonal Transport by Retinal Ganglion Cells to the Dorsal Lateral Geniculate Nucleus", 1991, pp. 1593-99, Vol. 32, No. 5, Investigative Ophthalmol. & Visual Science.
	65.	Ikeda et al., "In Situ Localization of Three Subtypes (EP_1, EP_3 and EP_4) of Prostaglandin E Receptors in Embryonic and Newborn Mice", 1995, Vol. S172, J. Bone Miner Res.
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	67.	Samuelsson et al., 1995, pp. 499-504, Vol. 23, Advances in Prostaglandin Thromboxanes and Leukotriene Research.
	68.	DeLarco et al., "Epithelioid and Fibroblastic Rat Kidney Cell Clones: EGF Receptors and the Effect of Mouse Sarcoma Virus Transformation", 1978, pp. 335-342, Cell Physiol.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT APR 11 2003 (use as many sheets as necessary)		Application Number	09/626,999 10/521,508
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		First Named Inventor	Billot et al.
		Group Art Unit	To be Assigned
		Examiner Name	To be Assigned
		Attorney Docket Number	MC060P
Sheet	5	of	5

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Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
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	71.	Weinreb et al., "Different Pattern of alkaline Phosphatase, Osteopontin and Osteocalcin Expression in Developing Rat Bone Visualized by In-Situ Hybridization", 1990, pp. 831-842, Vol. 5, J. Bone Miner Res.
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	74.	T. Ishizuka et al., "Mild and Selective Ring-Cleavage of Cyclic Carbamates to Amino Alcohols", 1987, pp. 4185-4188, Vol. 28, No. 36, Tetrahedron Letters.
	75.	O.T. Quimby et al., "Tetrasodium Carbonyldiphosphonate. Synthesis, Reactions, and Spectral Properties", 1967, pp. 4111-4114, Vol. 32, J. Org. Chem.
	76.	Matsunaga, "Novel Prostaglandin Derivative", Patent Abstracts of Japan, Vol. 007, No. 268 & JP 58 150575.

Examiner Signature		Date Considered	
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